

Amendments to the Claims/Listing Claims:

This listing of claims will replace all prior versions, and listings, of the claims in the application. By present amendment, claims have been amended, claims stand cancelled, without prejudice or disclaimer, and claims have been presented in their original or previously presented form.

1. (Currently Amended) A method of forming a mono diameter wellbore casing within a borehole that traverses a subterranean formation, comprising:

positioning a first wellbore casing within the borehole;

radially expanding and plastically deforming the first wellbore casing within the borehole;

positioning a second wellbore casing within the borehole in overlapping relation to the first wellbore casing;

radially expanding and plastically deforming the second wellbore casing within the borehole so that the second wellbore casing comprises a first configuration in which the inside diameter of the overlapping portion of the second wellbore casing is less than the inside diameter of the portion of the first wellbore casing that does not overlap with the second wellbore casing;

radially expanding and plastically deforming the overlapping portions of the first and second wellbore casings; and

radially expanding and plastically deforming at least a portion of the second wellbore casing that does not overlap with the first wellbore casing so that the second wellbore casing comprises a second configuration in which;

wherein the inside diameter of the portion of the first wellbore casing that does not overlap with the second wellbore casing is substantially equal to the inside diameter of the overlapping portion and the at least a portion of the second wellbore casing is equal to the inside diameter of the portion of the

~~first wellbore casing that does not overlap with radially expanded and plastically deformed portions of the second wellbore casing.~~

2. (Original) The method of claim 1, wherein radially expanding and plastically deforming the overlapping portions of the first and second wellbore casings comprises:

positioning a telescoping radial expansion device comprising an outer sleeve and an inner sleeve positioned within and movably coupled to the outer sleeve comprising a tubular expansion cone proximate the end of the second wellbore casing; and

injecting a fluidic material into the telescoping radial expansion device to cause the outer sleeve to engage the first wellbore casing and cause the inner sleeve to extend out of the outer sleeve into the overlapping portions of the first and second wellbore casings to cause the tubular expansion cone to radially expand and plastically deform the overlapping portions of the first and second wellbore casings.

3. (Original) The method of claim 2, further comprising:

conveying fluidic materials within the borehole that are displaced by the extension of the inner sleeve to a location within the borehole above the tubular expansion cone.

4. (Currently Amended) The method of claim 2, wherein radially expanding and plastically deforming at least a portion of the second wellbore casing that does not overlap with the first wellbore casing so that the second wellbore casing comprises a second configuration in which the inside diameter of the overlapping portion and the at least a portion of the second wellbore casing is equal to the inside diameter of the portion of the first wellbore casing that does not overlap with the second wellbore casing comprises:

reducing the operating pressure within the telescoping radial expansion device;
moving the outer sleeve onto the inner sleeve of the telescoping radial expansion device; and

injecting a fluidic material into the telescoping radial expansion device to cause the outer sleeve to engage at least one of the first and second wellbore casings and cause the inner sleeve to extend out of the outer sleeve into the second wellbore casing to cause the tubular expansion cone to radially expand and plastically deform the at least a portion of the second wellbore casing.

5. (Original) The method of claim 4, further comprising:

conveying fluidic materials within the borehole that are displaced by the extension of the inner sleeve to a location within the borehole above the tubular expansion cone.

6. (Currently Amended) An apparatus for forming a mono diameter wellbore casing, comprising:

means for positioning a first wellbore casing within [[the]] a borehole;

means for radially expanding and plastically deforming the first wellbore casing within the borehole;

means for positioning a second wellbore casing within the borehole in overlapping relation to the first wellbore casing;

means for radially expanding and plastically deforming the second wellbore casing within the borehole so that the second wellbore casing comprises a first configuration in which the inside diameter of the overlapping portion of the second wellbore casing is less than the inside diameter of the portion of the first wellbore casing that does not overlap with the second wellbore casing;

~~means for radially expanding and plastically deforming the overlapping portions of the first and second wellbore casings; and~~

~~means for radially expanding and plastically deforming the overlapping portions of the first and second wellbore casings and at least a portion of the~~

second wellbore casing that does not overlap with the first wellbore casing[[:]])

~~wherein the inside diameter of the portion of the first wellbore casing that does not overlap with the second wellbore casing is substantially equal to the inside diameter of the radially expanded and plastically deformed portions of the second wellbore casing so that the second wellbore casing comprises a second configuration in which the inside diameter of the overlapping portion and the at least a portion of the second wellbore casing is equal to the inside diameter of the portion of the first wellbore casing that does not overlap with the second wellbore casing.~~

7. (Currently Amended) The apparatus of claim 6, wherein means for radially expanding and plastically deforming the overlapping portions of the first and second wellbore casings and at least a portion of the second wellbore casing that does not overlap with the first wellbore casing so that the second wellbore casing comprises a second configuration in which the inside diameter of the overlapping portion and the at least a portion of the second wellbore casing is equal to the inside diameter of the portion of the first wellbore casing that does not overlap with the second wellbore casing comprises:

means for positioning a telescoping radial expansion device comprising an outer sleeve and an inner sleeve positioned within and movably coupled to the outer sleeve comprising a tubular expansion cone proximate the end of the second wellbore casing; and

means for injecting a fluidic material into the telescoping radial expansion device to cause the outer sleeve to engage the first wellbore casing and cause the inner sleeve to extend out of the outer sleeve into the overlapping portions of the first and second wellbore casings to cause the tubular expansion cone to radially expand and plastically deform the overlapping portions of the first and second wellbore casings.

8. (Original) The method of claim 7, further comprising:

conveying fluidic materials within the borehole that are displaced by the extension of the inner sleeve to a location within the borehole above the tubular expansion cone.

9. (Currently Amended) The apparatus of claim 7, wherein means for radially expanding and plastically deforming the overlapping portions of the first and second wellbore casings and at least a portion of the second wellbore casing that does not overlap with the first wellbore casing so that the second wellbore casing comprises a second configuration in which the inside diameter of the overlapping portion and the at least a portion of the second wellbore casing is equal to the inside diameter of the portion of the first wellbore casing that does not overlap with the second wellbore casing comprises:

means for reducing the operating pressure within the telescoping radial expansion device;

means for moving the outer sleeve onto the inner sleeve of the telescoping radial expansion device; and

means for injecting a fluidic material into the telescoping radial expansion device to cause the outer sleeve to engage at least one of the first and second wellbore casings and cause the inner sleeve to extend out of the outer sleeve into the second wellbore casing to cause the tubular expansion cone to radially expand and plastically deform the at least a portion of the second wellbore casing.

10. (Original) The method of claim 9, further comprising:

conveying fluidic materials within the borehole that are displaced by the extension of the inner sleeve to a location within the borehole above the tubular expansion cone.

11. (Original) An apparatus for radially expanding and plastically deforming a tubular member, comprising:

a tubular adapter defining a longitudinal passage;

a tubular outer sleeve coupled to the tubular adapter defining a longitudinal passage;

a tubular hydraulic slip body coupled to the tubular outer sleeve defining a plurality of L-shaped bypass ports and a plurality of radial hydraulic slip mounting passages;

a plurality of hydraulic slips movably coupled and positioned within corresponding radial hydraulic slip mounting passages for engaging the tubular member;

a tubular packer cup mandrel coupled to the tubular hydraulic slip body defining a longitudinal passage;

a plurality of packer cups coupled to the tubular packer cup mandrel for sealingly engaging the tubular member;

a tubular shoe positioned within and movably coupled to the tubular outer sleeve defining a longitudinal passage;

a tubular inner mandrel positioned within and movably coupled to the tubular hydraulic slip body coupled to the tubular shoe defining a longitudinal passage and a plurality of radial bypass ports;

a tubular expansion cone mandrel coupled to the tubular inner mandrel defining a longitudinal passage having a throat passage for receiving a ball, an L-shaped bypass port, and a radial pressure port;

a tubular expansion cone coupled to the tubular expansion cone including a tapered outer expansion surface for radially expanding and plastically deforming the tubular member;

a tubular guide nose coupled to the tubular expansion cone mandrel defining a longitudinal passage;

a bypass tube positioned within the tubular inner mandrel coupled to the expansion cone mandrel and the tubular shoe defining a longitudinal passage; and

an annular longitudinal bypass passage defined between the tubular inner mandrel and the bypass tube.

12. (Original) The apparatus of claim 11, wherein the longitudinal passages of the tubular adapter, bypass tube, and tubular expansion cone mandrel are fluidically coupled.

13. (Original) The apparatus of claim 11, wherein the longitudinal passage of the tubular expansion cone mandrel is fluidically coupled to the radial pressure port of the tubular expansion cone mandrel.

14. (Original) The apparatus of claim 11, wherein the L-shaped bypass port of the tubular expansion cone mandrel is fluidically coupled to the annular longitudinal bypass passage, the radial bypass passages of the tubular inner mandrel, the L-shaped bypass ports of the tubular hydraulic slip body, and the radial bypass ports of the tubular outer sleeve.

15. (Original) An apparatus for radially expanding and plastically deforming a tubular member, comprising:

a tubular support member defining a longitudinal passage;

a tubular outer sleeve coupled to the tubular support member defining a longitudinal passage and a plurality of radial bypass ports;

an hydraulic slip coupled to the tubular outer sleeve for controllably engaging the tubular member;

one or more packer cups coupled to the tubular outer sleeve for sealingly engaging the tubular member;

a tubular inner sleeve positioned within and movably coupled to the tubular outer sleeve defining a longitudinal passage, an annular longitudinal bypass passage, and one or more radial bypass passages; and

a tubular expansion cone coupled to the tubular inner sleeve defining a longitudinal passage having a throat passage for receiving a ball, an L-

shaped bypass port, and a radial pressure port including an tapered outer expansion surface for radially expanding and plastically deforming the tubular member.

16. (Original) The apparatus of claim 15, wherein the longitudinal passages of the tubular outer sleeve and the tubular expansion cone are fluidically coupled.

17. (Original) The apparatus of claim 15, wherein the longitudinal passage of the tubular expansion cone is fluidically coupled to the radial pressure port of the tubular expansion cone.

18. (Original) The apparatus of claim 15, wherein the L-shaped bypass port of the tubular expansion cone is fluidically coupled to the annular longitudinal bypass passage and the radial bypass passages of the tubular inner sleeve, and the L-shaped bypass ports and the radial bypass ports of the tubular outer sleeve.

19. (Currently Amended) ~~A method of radially expanding and plastically deforming a wellbore casing positioned within a borehole that traverses a subterranean formation, comprising: The method of claim 1, wherein radially expanding and plastically deforming the overlapping portions of the first and second wellbore casings comprises:~~

positioning an outer tubular sleeve and an inner tubular sleeve comprising an expansion cone within the borehole, wherein the inner tubular sleeve is movably coupled to and at least partially housed within the outer tubular sleeve;

injecting a fluidic material into the inner and outer tubular sleeves;
coupling the outer tubular sleeve to the first wellbore casing; and
extending the inner tubular sleeve out of the outer tubular sleeve into the overlapping portions of the first and second wellbore casing casings to radially expand and plastically deform a portion of the wellbore casing the overlapping portions of the first and second wellbore casings using the expansion cone.

20. (Original) The method of claim 19, wherein injecting a fluidic material into the inner and outer tubular sleeves comprises:

injecting the fluidic material into an annular chamber above the expansion cone.

21. (Currently Amended) The method of claim 19, further comprising:

conveying fluidic materials within the borehole that are displaced by the extension of the inner tubular sleeve to a location above the expansion cone.

22. (Currently Amended) The method of claim 21, wherein conveying fluidic materials within the borehole that are displaced by the extension of the inner tubular sleeve to a location above the expansion cone comprises:

conveying fluidic materials within the borehole displaced by the extension of the inner tubular sleeve through an annular passage and one or more radial passages to the location above the expansion cone.

23. (Currently Amended) The method of claim 19, further comprising: wherein radially expanding and plastically deforming at least a portion of the second wellbore casing that does not overlap with the first wellbore casing so that the second wellbore casing comprises a second configuration in which the inside diameter of the overlapping portion and the at least a portion of the second wellbore casing is equal to the inside diameter of the portion of the first wellbore casing that does not overlap with the second wellbore casing comprises:

depressuring the inner and outer tubular sleeves;

decoupling the outer tubular sleeve and the first wellbore casing; and

collapsing the outer tubular sleeve onto the inner tubular sleeve.

24. (Currently Amended) The method of claim 23, further comprising: wherein radially expanding and plastically deforming at least a portion of the second wellbore casing that does not overlap with the first wellbore casing so that the second wellbore casing comprises a second configuration in which the inside diameter of the overlapping

portion and the at least a portion of the second wellbore casing is equal to the inside diameter of the portion of the first wellbore casing that does not overlap with the second wellbore casing further comprises:

injecting a fluidic material into the inner and outer tubular sleeves;
coupling the outer tubular sleeve to ~~the wellbore casing at least one of the first and second wellbore casings;~~
extending the inner tubular sleeve out of the outer tubular sleeve into the second wellbore casing to radially expand and plastically deform another portion of the wellbore casing the at least a portion of the second wellbore casing.

25. (Currently Amended) The method of claim 24, wherein injecting a fluidic material into the inner and outer tubular sleeves to radially expand and plastically deform at least a portion of the second wellbore casing that does not overlap with the first wellbore casing so that the second wellbore casing comprises a second configuration in which the inside diameter of the overlapping portion and the at least a portion of the second wellbore casing is equal to the inside diameter of the portion of the first wellbore casing that does not overlap with the second wellbore casing comprises:

injecting the fluidic material into an annular chamber above the expansion cone.

26. (Currently Amended) The method of claim 24, further comprising:

conveying fluidic materials within the borehole that are displaced by the extension of the inner tubular sleeve to a location above the expansion cone.

27. (Currently Amended) The method of claim 26, wherein conveying fluidic materials within the borehole that are displaced by the extension of the inner tubular sleeve to the location above the expansion cone comprises:

conveying fluidic materials within the borehole displaced by the extension of the inner tubular sleeve through an annular passage and one or more radial passages to the location above the expansion cone.

28. (Currently Amended) ~~An apparatus for radially expanding and plastically deforming a wellbore casing positioned within a borehole that traverses a subterranean formation, comprising: The apparatus of claim 6, wherein means for radially expanding and plastically deforming the overlapping portions of the first and second wellbore casings and at least a portion of the second wellbore casing that does not overlap with the first wellbore casing so that the second wellbore casing comprises a second configuration in which the inside diameter of the overlapping portion and the at least a portion of the second wellbore casing is equal to the inside diameter of the portion of the first wellbore casing that does not overlap with the second wellbore casing comprises:~~

means for positioning an outer tubular sleeve and an inner tubular sleeve comprising an expansion cone within the borehole, wherein the inner tubular sleeve is movably coupled to and at least partially housed within the outer tubular sleeve;

means for injecting a fluidic material into the inner and outer tubular sleeves;

means for coupling the outer tubular sleeve to ~~the wellbore casing at least one of the first and second wellbore casings~~; and

means for extending the inner tubular sleeve out of the outer tubular sleeve into the ~~overlapping portions of the first and second wellbore casing casings to radially expand and plastically deform a portion of the wellbore casing using the expansion cone.~~

29. (Original) The apparatus of claim 28, wherein means for injecting a fluidic material into the inner and outer tubular sleeves comprises:

means for injecting the fluidic material into an annular chamber above the expansion cone.

30. (Currently Amended) The apparatus of claim 28, further comprising:

means for conveying fluidic materials within the borehole ~~that are~~ displaced by the extension of the inner tubular sleeve to a location above the expansion cone.

31. (Currently Amended) The apparatus of claim 30, wherein means for conveying fluidic materials within the borehole that are displaced by the extension of the inner tubular sleeve to a location above the expansion cone comprises:

means for conveying fluidic materials within the borehole displaced by the extension of the inner tubular sleeve through an annular passage and one or more radial passages to the location above the expansion cone.

32. (Currently Amended) The apparatus of claim 28, further comprising: wherein means for radially expanding and plastically deforming the overlapping portions of the first and second wellbore casings and at least a portion of the second wellbore casing that does not overlap with the first wellbore casing so that the inside diameter of the portion of the first wellbore casing that does not overlap with the second wellbore casing is equal to the inside diameter of the overlapping portion and the at least a portion of the second wellbore casing further comprises:

means for depressuring the inner and outer tubular sleeves;

means for decoupling the outer tubular sleeve and the wellbore casing at least one of the first and second wellbore casings; and

means for collapsing the outer tubular sleeve onto the inner tubular sleeve.

33 -34. (Cancelled)

35. (Currently Amended) The apparatus of claim [[33]] 32, further comprising:

means for conveying fluidic materials within the borehole that are displaced by the extension of the inner tubular sleeve to a location above the expansion cone.

36. (Currently Amended) The apparatus of claim 35, wherein means for conveying fluidic materials within the borehole that are displaced by the extension of the inner tubular sleeve to a location above the expansion cone comprises:

means for conveying fluidic materials within the borehole displaced by the extension of the inner tubular sleeve through an annular passage and one or more radial passages to the location above the expansion cone.

37. (New) The apparatus of claim 6, wherein means for radially expanding and plastically deforming the overlapping portions of the first and second wellbore casings and at least a portion of the second wellbore casing that does not overlap with the first wellbore casing so that the second wellbore casing comprises a second configuration in which the inside diameter of the overlapping portion and the at least a portion of the second wellbore casing is equal to the inside diameter of the portion of the first wellbore casing that does not overlap with the second wellbore casing comprises:

- a tubular adapter defining a longitudinal passage;
- a tubular outer sleeve coupled to the tubular adapter defining a longitudinal passage;
- a tubular hydraulic slip body coupled to the tubular outer sleeve defining a plurality of bypass ports and a plurality of radial hydraulic slip mounting passages;
- a plurality of hydraulic slips movably coupled and positioned within corresponding radial hydraulic slip mounting passages for engaging at least one of the first and second wellbore casings;
- a tubular packer cup mandrel coupled to the tubular hydraulic slip body defining a longitudinal passage;
- a plurality of packer cups coupled to the tubular packer cup mandrel for sealingly engaging at least one of the first and second wellbore casings;
- a tubular shoe positioned within and movably coupled to the tubular outer sleeve defining a longitudinal passage;
- a tubular inner mandrel positioned within and movably coupled to the tubular hydraulic slip body coupled to the tubular shoe defining a longitudinal passage and a plurality of radial bypass ports;
- an expansion device mandrel coupled to the tubular inner mandrel defining a longitudinal passage having a throat passage for receiving a ball, a bypass port, and a radial pressure port;

an expansion device coupled to the tubular expansion device mandrel including one or more tapered outer expansion surfaces for radially expanding and plastically deforming the at least one of the first and second wellbore casings;

a tubular guide nose coupled to the tubular expansion device mandrel defining a longitudinal passage;

a bypass tube positioned within the tubular inner mandrel coupled to the expansion device mandrel and the tubular shoe defining a longitudinal passage; and

an annular longitudinal bypass passage defined between the tubular inner mandrel and the bypass tube.

38. (New) The apparatus of claim 37, wherein the longitudinal passages of the tubular adapter, bypass tube, and expansion device mandrel are fluidically coupled.

39. (New) The apparatus of claim 37, wherein the longitudinal passages of the expansion device mandrel is fluidically coupled to the radial pressure port of the expansion device mandrel.

40. (New) The apparatus of claim 37, wherein the bypass port of the expansion device mandrel is fluidically coupled to the annular longitudinal bypass passage, the radial bypass passages of the tubular inner mandrel, the bypass ports of the tubular hydraulic slip body, and the radial bypass ports of the tubular outer sleeve.

41. (New) The apparatus of claim 6, wherein means for radially expanding and plastically deforming the overlapping portions of the first and second wellbore casings and at least a portion of the second wellbore casing that does not overlap with the first wellbore casing so that the second wellbore casing comprises a second configuration in which the inside diameter of the overlapping portion and the at least a portion of the second wellbore casing is equal to the inside diameter of the portion of the first wellbore casing that does not overlap with the second wellbore casing comprises:

a tubular support member defining a longitudinal passage;

a tubular outer sleeve coupled to the tubular support member defining a longitudinal passage and a plurality of radial bypass ports;

an hydraulic slip coupled to the tubular outer sleeve for controllably engaging at least one of the first and second wellbore casings;

one or more packer cups coupled to the tubular outer sleeve for sealingly engaging at least one of the first and second wellbore casings;

a tubular inner sleeve positioned within and movably coupled to the tubular outer sleeve defining a longitudinal passage, an annular longitudinal bypass passage, and one or more radial bypass passages; and

a tubular expansion device coupled to the tubular inner sleeve defining a longitudinal passage having a throat passage for receiving a ball, a bypass port, and a radial pressure port including one or more tapered outer expansion surfaces for radially expanding and plastically deforming at least a portion of at least one of the first and second wellbore casings.

42. (New) The apparatus of claim 41, wherein the longitudinal passages of the tubular outer sleeve and the tubular expansion device are fluidically coupled.
43. (New) The apparatus of claim 41, wherein the longitudinal passage of the tubular expansion device is fluidically coupled to the radial pressure port of the tubular expansion device.
44. (New) The apparatus of claim 41, wherein the bypass port of the tubular expansion device is fluidically coupled to the annular longitudinal bypass passage and the radial bypass passages of the tubular inner sleeve, and the bypass ports and the radial bypass ports of the tubular outer sleeve.
45. (New) The apparatus of claim 6, wherein means for radially expanding and plastically deforming the overlapping portions of the first and second wellbore casings and at least a portion of the second wellbore casing that does not overlap with the first wellbore casing so that the second wellbore casing comprises a second configuration in which the inside diameter of the overlapping portion and the at least a portion of the

second wellbore casing is equal to the inside diameter of the portion of the first wellbore casing that does not overlap with the second wellbore casing comprises:

- a tubular adapter defining a longitudinal passage;
- a tubular outer sleeve coupled to the tubular adapter defining a longitudinal passage;
- a tubular hydraulic slip body coupled to the tubular outer sleeve defining a plurality of radial hydraulic slip mounting passages;
- a plurality of hydraulic slips movably coupled and positioned within corresponding radial hydraulic slip mounting passages for engaging at least one of the first and second wellbore casings;
- a tubular packer cup mandrel coupled to the tubular hydraulic slip body defining a longitudinal passage;
- a plurality of packer cups coupled to the tubular packer cup mandrel for sealingly engaging at least one of the first and second wellbore casings;
- a tubular shoe positioned within and movably coupled to the tubular outer sleeve defining a longitudinal passage;
- a tubular inner mandrel positioned within and movably coupled to the tubular hydraulic slip body coupled to the tubular shoe defining a longitudinal passage and a plurality of bypass ports;
- an expansion device mandrel coupled to the tubular inner mandrel defining a longitudinal passage, a bypass port, and a radial pressure port; and
- a expansion device coupled to the tubular expansion device mandrel including one or more tapered outer expansion surfaces for radially expanding and plastically deforming the at least a portion of at least one of the first and second wellbore casings.